

Missouri Water Utility Partnership - July 8, 2010



Project Size: \$226,943

Annual Savings				
City	kilowatt Hours Electricity	Hundred Cubic Feet Natural Gas or Propane	Mgals Water	Dollars
Joplin	523,000	N/A	N/A	\$ 52,280



Building Improvements

- Fluorescent lighting upgrades at Turkey Creek & Shoal Creek Wastewater Treatment Facilities
- 750 T-12 ballasts replaced with energy efficient T-8 ballasts
- Energy savings projected to be 80,534 KWH/year
- Projected cost savings are \$8,053/year

Wastewater Treatment Improvements

- Installed Variable Frequency Drives on 8 pumps at the 2 largest sewage lift stations in the City
- Energy saving calculated at approx. 442,265 KWH/year
- Projects savings are \$44,227/year



Business Model:	Contractor Bids + City Staff
Prime Contractor:	City of Joplin
Utility Partners:	Empire District Electric Company
Funding Sources:	US Department of Energy – Energy Efficiency and Conservation Block Grant (EECBG)

This will prevent the following greenhouse gases from being released into the atmosphere



11,898,250 lbs
Carbon Dioxide
(CO2)



18,949 lbs
Nitrogen Oxide
(NOx)



46,087 lbs
Sulfur Dioxide
(SO2)

Your greenhouse gas emissions savings are equivalent to:



38

Acres of forest
preserved from
deforestation



29

Railcars of
coal burned



988

Cars removed from
the road for one
year



12,551

Barrels of oil
burned

